PATENT



Docket No.: 19226/2181 (R-5766)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s)	:	Mollendorf et al.)	Examiner:
Serial No.	:	10/645,726)	Unknown
Cnfrm. No.	:	8224)	Art Unit: 1775
Filed	:	August 21, 2003)	
For	:	PROCESS FOR ENHANCING MATERIAL PROPERTIES AND MATERIALS SO ENHANCED))))	

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §§ 1.97-1.98

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Pursuant to 37 CFR §§ 1.97-1.98, applicants hereby bring to the attention of the United States Patent and Trademark Office, the enclosed references listed on the attached PTO-1449 form.

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Date: April 28, 2004

Andrew K. Gonsalves Registration No. 48,145

Respectfully submitted,

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april 28, 2004

Jo Ann Whelen

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Substitute	for form 1449A/PTO			C	omplete if Known	•
INFO	RMATION I	ISCI	OSURE	Application Number	10/645,726	•
STATEMENT BY APPLICANT				Filing Date	August 21, 2003	
SIAI				First Named Inventor	Joseph C. Mollendorf	
	(use as many sheets a	s necessa	אני	Art Unit	1775	
				Examiner Name	Unknown	
Sheet	1	of	5	Attorney Docket Number	19226/2181 (R-5766)	

	,		U.S. PATENT DOCUM	ENTS	
Examiner Initials	Cite No.1	U.S. Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
		Number - Kind Code ² (if known)	MM-DD-YYYY	Applicant of Cited D ocument	Relevant Passages or Relevant Figures Appear
	1	US-3,660,849	05/09/1972	Jonnes et al.	
	2	US-3,856,721	12/24/74	Fritschel	
	3	US-4,077,922	03/07/1978	Farrissey, Jr. et al.	
	4	US-4,252,378	02/24/81	DeBolt et al.	
	5	US-4,276,341	06/30/1981	Tanaka	
	6	US-5,120,385	06/09/1992	Takahashi et al.	
	7	US-5,569,513	10/29/1996	Fidler et al.	
	8	US-5,888,642	03/30/99	Meteer et al.	
	9	US-6,284,809 B1	09/04/01	Plummer et al.	
	10	US-6,319,599	11/20/2001	Buckley	
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	12	US-6,389,865 B1	05/21/02	Easterbrook	

			FOREIGN PATENT DO	CUMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document Kind Code Country Code ³ Number ⁴ (if known		Name of Patentee or Application of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		OTHER PRIO	R ART – NON PATENT LI	TERATURE DOCUMENTS		
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.)., date, page(s), volume-issue number(s), publisher, city and/or country where published.				T ²
	13	Dow Corning, Product Information Sheet for Silicone Sealants: Dow Corning® 756 Silicone Building Sealant-HP, 3 pages				
	14	Herrmann et al., "Aerogels: The Leading Edge in Thermal Insulation," H & V Engineer 68(725):8-11 (1995)				
	15	Lu et al., "Thermal Trans Journal of Non-Crystalli			thic Aerogels,"	
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	17					
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R721627.1

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Substitut	Substitute for form 1449B/PTO			Complete if Known		
INFO	RMATION I	nisci	LOSURE	Application Number	10/645,726	
INFORMATION DISCLOSURE				Filing Date	August 21, 2003	
SIA	STATEMENT BY APPLICANT			First Named Inventor	Joseph C. Mollendorf	
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				Examiner Name	Unknown	
Sheet	2	of	5 .	Attorney Docket Number	19226/2181 (R-5766)	

Examiner	Cite	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the	T ²
Initials*	No.1	item (book, magazine, journal, serial, symposium, catalog, etc.)., date, page(s), volume-issue number(s), publisher, city and/or country where published.	
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	21	Benveniste, "Effective Thermal Conductivity of Composites with a Thermal Contact Resistance Between the Constituents: Nondilute Case," J. Appl. Phys. 61(8):2840-2843 (1987)	
	22	Ohsawa et al., "A Study of Composite Foams for Diving Suits Subjected to High Hydrostatic Pressure," J. of Appl. Polymer Science 23:1233-1245 (1979)	
	23	Chan et al., "Conductance of Packed Spheres in Vacuum," Transactions of the ASME- Journal of Heat Transfer 95:302-308 (1973)	
	24	Wawryk et al., "The Influence of Microsphere Diameter on the Coefficient of Thermal Conductivity of Microsphere Insulation," Cryogenics pp. 441-443 (August 1983)	
	25	Baudot et al., "Thermal Conductivity of a RTV Silicone Elastomer Between 1.2 and 300 K," Cryogenics 38(2):227-230 (1998)	
·	26	Hatta et al., "Thermal Conductivity of Coated Filler Composites," J. Appl. Phys. 59(6):1851-1860 (1986)	
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	28	Silicones, Inc., Product Information Sheet for P-10, 2 pp.	
	29	Cabot Corporation, Product Information Sheet for Nanogel™ Fine Particle Aerogel, 2 pp. (2002)	
	30	Cabot Corporation, Product Information Sheet for Nanogel™ Aerogel Beads, 2 pp. (2002)	
	31	Silicones, Inc., Material Safety Data Sheet for Product Name: P-10A, 2 pp. (1999)	
	32	Silicones, Inc., Material Safety Data Sheet for Product Name: P-10B, 2 pp. (1999)	
	33	Silicones, Inc., Material Safety Data Sheet for Product Name: GI-245 A, 2 pp. (1998)	
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	35	Silicones, Inc., Product Information Sheet for GI-245 Special Effect Silicone, 2 pp.	

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1	Signature	Considered	1

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Sheet	3	of	5	Attorney Docket Number	19226/2181 (R-5766)	

	_	OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.)., date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
_	36	Silicones, Inc., Price Sheet for RTV-2 Silicone Rubber, 1 page (1997)	
	37	Silicones, Inc., Product Information Sheet for GI-300 Series Silicone Rubber, 2 pp.	
	38	Silicones, Inc., Product Information Sheet for GI-320 Silicone Rubber, 1 page	
	39	Silicones, Inc., Product Information Sheet for GI-650 Silicone Rubber, 2 pp.	
	40	Silicones, Inc., Product Information Sheet for GI-1120 Silicone Rubber, 2 pp.	
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	51	Silicones, Inc., Product Information Sheet for Equipment Required for Two-Component RTV Silicone Rubber Mold-Making, 2 pp.	
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Signature		Considered	

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Substitute	for form 1449B/PTO			Complete if Known		
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		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS	
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	62	Perlite Institute Inc., World Trade Organization, "Basic Facts About Perlite," 3 pp., available at http://www.perlite.org/bfacts.htm	
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Signature	Considered	

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT DY A DRIVE CANTE				Complete if Known		
				Application Number	10/645,726	
				Filing Date	August 21, 2003	
STATEMENT BY APPLICANT				First Named Inventor	Joseph C. Mollendorf	
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Sheet	5	of	5	Attorney Docket Number	19226/2181 (R-5766)	

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	73	Grealish et al., "State-of-the-Art on Deep Water Thermal Insulation Systems," Proceedings of OMAE '02, 21 st International Conference on Offshore Mechanics and Artic Engineering, Oslo, Norway, pp. 339-347 (June 23-28, 2002)	
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